

IN THE CLAIMS:

Please CANCEL claims 26 and 33 without prejudice or disclaimer, AMEND claims 25, 27-29, 31, 32, 34-45, 48, 49, 56, 58, 59 and 61 and ADD new claims 66-84 as follows.

1-24. (Cancelled)

25. (Currently Amended) An apparatus-access node for a wireless communication network, comprising:

an access node portion configured to provide access to a wireless communication network based on an IEEE 802.11 standard;

a determining deviceprocessor configured to determine and transmit communication information to a subscriber terminal, said communication information comprising

frequency band information indicating a plurality of frequency bands on which where at least one access node portion of the wireless communication network is capableconfigured to communicate, and a frequency band coverage indicator related to at least one frequency band of neighboring access nodes of the access node in the wireless communication network, wherein

said ~~determining device~~processor is further configured to incorporate the communication information in a signaling using a transmission of specific frames to said subscriber terminal.

26. (Cancelled)

27. (Currently Amended) The ~~access node~~apparatus according to claim 26, wherein said frequency bands comprise a frequency band of 2.4 GHz and one or more frequency bands between 5 and 6 GHz.

28. (Currently Amended) The ~~access node~~apparatus according to claim 25, wherein said communication information further comprises a multiple band indicator related to an access node.

29. (Currently Amended) The ~~access node~~apparatus according to claim 25, wherein said communication information further comprises a traffic load indicator related to the at least one frequency band of an access node.

30. (Cancelled)

31. (Currently Amended) The ~~access nodeapparatus~~ according to claim 25, wherein said communication information further comprises a frequency channel indicator ~~for indicating that indicates~~ the frequency channel used by the ~~access nodeapparatus~~ at the respective frequency band.

32. (Currently Amended) ~~An apparatus-subscriber terminal for communicating in a wireless communication network, comprising:~~

a communicator configured to communicate in a wireless communication network based on an IEEE 802.11 standard;

~~a receiving portion~~receiver configured to receive communication information transmitted from at least one access node of the wireless communication network, said communication information comprising

~~frequency band information indicating a plurality of frequency bands on which where~~ the at least one access node is ~~capable~~configured to communicate, and a ~~frequency band coverage indicator related to at least one frequency band of neighboring access nodes of the transmitting access node in the wireless communication network~~, wherein said communication information is received from said at least one access node by signaling by transmission of specific frames;

and

~~a processor configured to process the received communication information and the frequency band coverage indicator so as to determine, based on the communication~~

information, a communication connection capability of at least part of the at least one access node on the basis of the frequency band information; and, wherein

~~a decision portion~~ the apparatus is configured to decide on a communication connection changeover ~~of~~ for the subscriber terminal communicator of the apparatus by using a processing result.

33. (Cancelled)

34. (Currently Amended) The subscriber terminal apparatus according to claim 33, wherein said frequency bands comprise a frequency band of 2.4 GHz and one or more frequency bands between 5 and 6 GHz.

35. (Currently Amended) The subscriber terminal apparatus according to claim 32, wherein said ~~receiving portion~~ receiver is further configured to extract the communication information from a beacon packet broadcasted from the access node.

36. (Currently Amended) The subscriber terminal apparatus according to claim 32, wherein said communication information further comprises a multiple band indicator related to at least part of the at least one access node.

37. (Currently Amended) The ~~subscriber terminal apparatus~~ according to claim 32, wherein said communication information further comprises a traffic load indicator related to the at least one frequency band of at least part of the at least one transmitting access node.

38. (Cancelled)

39. (Currently Amended) The ~~subscriber terminal apparatus~~ according to claim 32, wherein said communication information further comprises a frequency channel indicator ~~for indicating~~ to indicate the frequency channel used by the access node at the respective frequency band.

40. (Currently Amended) The ~~subscriber terminal apparatus~~ according to claim 32, further comprising:

a ~~detecting device~~ detector configured to detect a signal strength indicator on a predetermined frequency band, wherein said processor is further configured to compare the detected signal strength indicator with a predefined threshold value, wherein the result of the comparison ~~indicating~~ indicates an estimation of the communication connection capability of an access node on another frequency band, and said ~~decision device~~ apparatus is

configured to use the result of said comparison to decide on the communication connection changeover.

41. (Currently Amended) The ~~subscriber terminal apparatus~~ according to claim 32, wherein the ~~decision portion apparatus~~ is further configured to decide to change the communication connection from the present frequency band to another frequency band ~~which that~~ is common to the ~~subscriber terminal apparatus~~ and the access node associated with the ~~subscriber terminal apparatus~~.

42. (Currently Amended) The ~~subscriber terminal apparatus~~ according to claim 32, wherein the ~~decision portion apparatus~~ is further configured to decide to change the communication connection from a current access node to a specific frequency band of a neighboring access node ~~which that~~ is common to the ~~subscriber terminal apparatus~~ and ~~at~~ the neighboring access node to be associated with the ~~subscriber terminal apparatus~~.

43. (Currently Amended) The ~~subscriber terminal apparatus~~ according to claim 32, wherein the processor is further configured to process communication information transmitted from two or more access nodes in the wireless communication network.

44. (Currently Amended) A computer program embodied on a computer readable medium, the program controlling that when executed by a processor to perform a process, the process comprising, is configured to control a method comprising:

determining and transmitting communication information and transmitting said communication information to a subscriber terminal, said communication information comprising

frequency band information indicating a plurality of frequency bands on which where at least one access node in a wireless communication network based on an IEEE 802.11 standard is capable to communicate of communication, and a frequency band coverage indicator related to at least one frequency band of neighboring access nodes of the access node in the wireless communication network; and

the computer program being further configured to control a method comprising: incorporating the communication information in a signaling using a transmission of specific frames to said subscriber terminal.

45. (Currently Amended) A computer program embodied on a computer readable medium, the program controlling that when executed by a processor to perform a process, the process comprising, is configured to control a method comprising:

receiving communication information transmitted from at least one access node in
a wireless communication network based on an IEEE 802.11 standard, said
communication information comprising

frequency band information indicating a plurality of frequency bands on
which where the at least one access node is capable to communicate
of communication, and a frequency band coverage indicator related to at least one
frequency band of neighboring access nodes of the transmitting access node in the
~~wireless communication network~~, wherein said communication information is
received from at least one access node by signaling by transmission of specific
frames;

~~the computer program being further configured to control a method comprising:~~
processing the received communication information to determine in the subscriber
terminal, based on the communication information, a communication connection
capability of at least part of the at least one access node on the basis of the frequency
band information and the frequency band coverage indicator; and
deciding, in the subscriber terminal, on a communication connection changeover
of the subscriber terminal by using a result of the processing.

46-47. (Cancelled)

48. (Currently Amended) A method ~~usable in an access node entity for a decision procedure on performing a communication connection changeover of a subscriber terminal~~, comprising:

 determining communication information from at least one access node in a wireless communication network based on an IEEE 802.22 standard, said communication information comprising

 frequency band information indicating a plurality of frequency bands ~~where on which~~ said at least one access node is capable ~~to communicate of communication~~; and a ~~frequency band coverage indicator related to at least one frequency band of neighboring access nodes of the access node in the wireless communication network~~;

 the method further comprising:

 transmitting said communication information from said at least one access node to a subscriber terminal by signaling by transmitting specific frames.

49. (Currently Amended) A method ~~usable in a subscriber terminal entity for a changeover decision procedure~~, said method comprising:

 receiving communication information from at least one access node in a wireless communication network based on an IEEE 802.22 standard, said communication information comprising

frequency band information indicating a plurality of frequency bands ~~where on which~~ said at least one access node is configured to communicate, ~~and a frequency band coverage indicator related to at least one frequency band of neighboring access nodes of the transmitting access node in the wireless communication network~~, wherein said communication information is received by signaling by transmission of specific frames;

~~the method further comprising:~~

processing the received communication information and determining based on the communication information a communication connection capability of at least part of the at least one access node on the basis of the frequency band information and the frequency band coverage indicator; and

using a processing result for a decision on a communication connection changeover of a subscriber terminal.

50–55. (Cancelled)

56. (Currently Amended) The ~~access node~~ apparatus according to claim 25, wherein the signaling comprises a transmission of one or more specific frames.

57. (Cancelled)

58. (Currently Amended) The ~~access nodeapparatus~~ according to claim 28, wherein the multiple band indicator indicates at least one frequency band.

59. (Currently Amended) The ~~subscriber terminalapparatus~~ according to claim 32, wherein the signaling comprises a transmission of one or more specific frames.

60. (Cancelled)

61. (Currently Amended) The ~~subscriber terminalapparatus~~ according to claim 36, wherein the multiple band indicator indicates at least one frequency band.

62-65. (Cancelled)

66. (New) The method according to claim 48, wherein said frequency bands comprise a frequency band of 2.4 GHz and one or more frequency bands between 5 and 6 GHz.

67. (New) The method according to claim 48, wherein said communication information further comprises a multiple band indicator related to an access node.

68. (New) The method according to claim 48, wherein said communication information further comprises a traffic load indicator related to the at least one frequency band of an access node.

69. (New) The method according to claim 48, wherein said communication information further comprises a frequency channel indicator that indicates the frequency channel used by the apparatus at the respective frequency band.

70. (New) The method according to claim 49, wherein said frequency bands comprise a frequency band of 2.4 GHz and one or more frequency bands between 5 and 6 GHz.

71. (New) The method according to claim 49, wherein communication information is extracted from a beacon packet broadcasted from the access node.

72. (New) The method according to claim 49, wherein said communication information further comprises a multiple band indicator related to at least part of the at least one access node.

73. (New) The method according to claim 49, wherein said communication information further comprises a traffic load indicator related to the at least one frequency band of at least part of the at least one transmitting access node.

74. (New) The method according to claim 49, wherein said communication information further comprises a frequency channel indicator to indicate the frequency channel used by the access node at the respective frequency band.

75. (New) The method according to claim 49, further comprising:
detecting a signal strength indicator on a predetermined frequency band;
comparing the detected signal strength indicator with a predefined threshold value,
wherein the result of the comparison indicates an estimation of the communication connection capability of an access node on another frequency band; and
using the result of said comparison to decide on the communication connection changeover.

76. (New) The method according to claim 49, further comprising:
deciding to change the communication connection from the present frequency band to another frequency band that is common to the subscriber terminal and the access node associated with the subscriber terminal.

77. (New) The method according to claim 49, further comprising:
deciding to change the communication connection from a current access node to a specific frequency band of a neighboring access node that is common to the subscriber terminal and the neighboring access node to be associated with the subscriber terminal.

78. (New) The method according to claim 49, further comprising:
processing communication information transmitted from two or more access nodes in the wireless communication network.

79. (New) The apparatus of claim 25, wherein the communication information further comprises a frequency band coverage indicator related to at least one frequency band of neighboring access nodes of the apparatus in the wireless communication network.

80. (New) The apparatus of claim 32, wherein the communication information further comprises a frequency band coverage indicator related to at least one frequency band of neighboring access nodes of the at least one transmitting access node in the wireless communication network.

81. (New) The computer program of claim 44, wherein the communication information further comprises a frequency band coverage indicator related to at least one

frequency band of neighboring access nodes of the at least one access node in the wireless communication network.

82. (New) The computer program of claim 45, wherein the communication information further comprises a frequency band coverage indicator related to at least one frequency band of neighboring access nodes of the transmitting access node in the wireless communication network.

83. (New) The method of claim 48, wherein the communication information further comprises a frequency band coverage indicator related to at least one frequency band of neighboring access nodes of the access node in the wireless communication network.

84. (New) The method of claim 49, wherein the communication information further comprises a frequency band coverage indicator related to at least one frequency band of neighboring access nodes of the transmitting access node in the wireless communication network.